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OM protein - protein search, using sw model

Run on: December 23, 2005, 23:29:54 | Search time 163 Seconds  
(without alignments)  
471.660 Million cell updates/sec

Title: US-09-455-978b-77

Perfect score: 933

Sequence: 1 MSNDMDTLVTADVVRNGIDGH.....DELVARFLPMLKTLTFDDQI 184

Scoring table:

BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database: Published Applications AA Main:\*

- 1: /cgn2\_6/ptodata/1/pubppaa/US07\_PUBCOMB.pep:\*
- 2: /cgn2\_6/ptodata/1/pubppaa/US08\_PUBCOMB.pep:\*
- 3: /cgn2\_6/ptodata/1/pubppaa/US09\_PUBCOMB.pep:\*
- 4: /cgn2\_6/ptodata/1/pubppaa/US10A\_PUBCOMB.pep:\*
- 5: /cgn2\_6/ptodata/1/pubppaa/US10B\_PUBCOMB.pep:\*
- 6: /cgn2\_6/ptodata/1/pubppaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

| Result No. | Score | Query Match | Length | ID                   | Description       |
|------------|-------|-------------|--------|----------------------|-------------------|
| 1          | 99    | 10.6        | 448    | US-10-460-524-5      | Sequence 5, Appli |
| 2          | 97.5  | 10.5        | 138    | US-10-767-701-34787  | Sequence 34787, A |
| 3          | 94.5  | 10.1        | 883    | US-10-369-493-18563  | Sequence 18563, A |
| 4          | 94    | 10.1        | 218    | US-10-156-761-9281   | Sequence 9281, Ap |
| 5          | 89.5  | 9.6         | 400    | US-10-156-761-13480  | Sequence 13480, A |
| 6          | 89.5  | 9.6         | 400    | US-10-732-923-10618  | Sequence 10618, A |
| 7          | 88    | 9.4         | 505    | US-10-282-122A-66025 | Sequence 66025, A |
| 8          | 87    | 9.3         | 496    | US-10-122A-65364     | Sequence 65364, A |
| 9          | 86.5  | 9.3         | 318    | US-10-848-111-14     | Sequence 14, Appl |
| 10         | 86    | 9.2         | 362    | US-10-437-963-137315 | Sequence 137315,  |
| 11         | 85    | 9.1         | 2703   | US-10-282-122A-66108 | Sequence 66108, A |
| 12         | 84    | 9.0         | 163    | US-10-425-115-287808 | Sequence 287808,  |
| 13         | 84    | 9.0         | 258    | US-10-425-115-287807 | Sequence 287807,  |
| 14         | 83.5  | 8.9         | 258    | US-10-156-761-11335  | Sequence 11335, A |
| 15         | 83.5  | 8.9         | 317    | US-10-282-122A-59961 | Sequence 59961, A |
| 16         | 83.5  | 8.9         | 367    | US-10-425-114-72593  | Sequence 72593, A |
| 17         | 83.5  | 8.9         | 368    | US-10-425-114-48921  | Sequence 48921, A |
| 18         | 83.5  | 8.9         | 640    | US-10-913-883-31     | Sequence 31, Appl |
| 19         | 83.5  | 8.9         | 1254   | US-10-282-122A-53778 | Sequence 53778, A |
| 20         | 83.5  | 8.9         | 4384   | US-10-472-928-3658   | Sequence 3658, Ap |
| 21         | 83    | 8.9         | 319    | US-11-097-143-13032  | Sequence 13032, A |
| 22         | 83    | 8.9         | 384    | US-10-425-114-48636  | Sequence 48636, A |
| 23         | 82.5  | 8.8         | 403    | US-10-282-122A-61978 | Sequence 61978, A |
| 24         | 82.5  | 8.8         | 695    | US-10-282-122A-69832 | Sequence 69832, A |
| 25         | 82.5  | 8.8         | 765    | US-10-369-493-13529  | Sequence 13529, A |
| 26         | 82.5  | 8.8         | 831    | US-09-738-626-5468   | Sequence 5468, Ap |
| 27         | 82.5  | 8.8         | 928    | US-10-282-122A-61748 | Sequence 61748, A |

|    |      |     |      |                      |                   |
|----|------|-----|------|----------------------|-------------------|
| 28 | 82.5 | 8.8 | 939  | US-10-156-761-12605  | Sequence 12605, A |
| 29 | 82   | 8.8 | 318  | US-10-425-114-63899  | Sequence 63899, A |
| 30 | 82   | 8.8 | 329  | US-10-243-739-16     | Sequence 16, Appl |
| 31 | 82   | 8.8 | 329  | US-10-244-065-16     | Sequence 16, Appl |
| 32 | 82   | 8.8 | 329  | US-10-289-454-16     | Sequence 16, Appl |
| 33 | 82   | 8.8 | 329  | US-10-346-190-16     | Sequence 16, Appl |
| 34 | 82   | 8.8 | 329  | US-10-465-811-7      | Sequence 7, Appl  |
| 35 | 82   | 8.8 | 329  | US-10-289-456-16     | Sequence 16, Appl |
| 36 | 82   | 8.8 | 329  | US-10-622-064-28     | Sequence 28, Appl |
| 37 | 82   | 8.8 | 329  | US-10-622-124-10     | Sequence 10, Appl |
| 38 | 82   | 8.8 | 329  | US-10-622-087-10     | Sequence 10, Appl |
| 39 | 82   | 8.8 | 329  | US-11-037-396-10     | Sequence 10, Appl |
| 40 | 82   | 8.8 | 330  | US-10-050-902-254    | Sequence 254, App |
| 41 | 82   | 8.8 | 330  | US-10-050-898-254    | Sequence 254, App |
| 42 | 82   | 8.8 | 901  | US-10-369-493-18812  | Sequence 18812, A |
| 43 | 82   | 8.8 | 1333 | US-10-282-122A-55546 | Sequence 55546, A |
| 44 | 82   | 8.8 | 2799 | US-10-282-122A-65564 | Sequence 65564, A |
| 45 | 81   | 8.7 | 1178 | US-10-128-714-8240   | Sequence 8240, Ap |

## ALIGNMENTS

```
RESULT 1
US-10-460-524-5
; Sequence 5, Application US/10460524
; Publication No. US20040029781A1
; GENERAL INFORMATION:
; APPLICANT: Hernan, Ronald A
; APPLICANT: Mehlig, Richard J
; APPLICANT: Brockie, Ian
; APPLICANT: Jenkins, Elizabeth
; TITLE OR INVENTION: Affinity Peptides and Method for Purification of Recombinant Pr
; FILE REFERENCE: SGM 7047.1
; CURRENT APPLICATION NUMBER: US/10/460,524
; PRIOR APPLICATION NUMBER: 2003-06-12
; PRIOR FILING DATE: 2003-06-12
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 448
; TYPE: PRT
; ORGANISM: Streptococcus
US-10-460-524-5

Query Match      10.6%; Score 99; DB 4; Length 448;
Best Local Similarity 25.3%; Pred. No. 0.31;
Matches 48; Conservative 25; Mismatches 45; Indels 72; Gaps 8;

QY      10 TADVNGIDGHALADRIQIDEAIRMRLSFTGIDP-----DTMAALAAE----- 53
      41 TPIINNGE---LTMLGNSFTTLALRNEESYADLYAAAVDTVAALAAENAGAAMEA 97
QY      54 ----QPLEAFTADAL-----VTDFYHLESYERTQDLFANSTVTEQKETOAYLLG 102
      98 AAAAALAKAKADALKEFKPKVSDYKNL-----INNATVBEIKOLQAGV-- 145
Db      103 LGRGSDTEYAAQARAIKIHVDLGLGPDVYIGAVTRYTGLDLADLDVADRGEEAAA 162
      146 -----ESAKKARISEATD-----GSDPLKSGTPA---EDTVK 175
QY      163 AVDELVARFL 172
Db      176 STELEAKVFL 185

RESULT 2
US-10-767-701-34787
; Sequence 34787, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovall, David K.
```

```

; APPLICANT: Zhou, Yihua
; GENERAL INFORMATION:
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21 (5353)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 34787
; LENGTH: 138
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C54418_1.pep
US-10-767-701-34787

Query Match          10.5%; Score 97.5; DB 4; Length 138;
Best Local Similarity 24.1%; Pred. No. 0.095;
Matches 28; Conservative 26; Mismatches 57; Indels 5; Gaps 2;

Qy 27 GDBAEIARLSFTGIDDT---MAALAAEQPLFEATDALVTDPYDHLSEYERTQDLF 82
Db 3 GMDKADAPPTCISYQKGTGKMDALHQDALKTKTSLVPSVLAHHDDI PGADNY 62
Qy 83 ANSTKVEQLKETQAEYLLGLRGGEYDTEYAQAQRARIGKHIDVGLGPDVYLCAVY 138
Db 63 MDALNTLSETESESEFQT-KNQGVPAPSPFNAEPQVGAIDNIVPQCPSYVADFT 117

RESULT 3
US-10-369-493-18563
; Sequence 18563, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10 (52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 18563
; LENGTH: 883
; TYPE: PRT
; ORGANISM: Halobacterium sp. NRC-1
US-10-369-493-18563

Query Match          10.1%; Score 94.5; DB 4; Length 883;
Best Local Similarity 28.3%; Pred. No. 2.2;
Matches 51; Conservative 23; Mismatches 63; Indels 43; Gaps 10;

Qy 12 DVRNGIDGH--ALADRIGDEAEIARLSFTGIDDTMAALAAEQPLFEA-----TAD 62
Db 180 DVKSNVEGQDLRLADIA--DKEADPHRLASHNLALEVRADIEHFAEKEBQARQTRD 237
Qy 63 ALVTDFYDHLSEYERTQDLFANSTKVEQLKETQAEYLLGLRGGEYDTEYAQAQR----- 117
Db 238 ----DAADVLEREESRTALADVEERTIADVREAVAE-----AERERETLADRVSDHRE 286
Qy 118 RIGKHIDV-----LGL-GPDVYLGAITYRYTGLDALAD--DYVAADGGEAAAVDEL 167
Db 287 RASDLDDEAALAAADIGDDPDABDASAE-----DAVADOREAVALREVAAPAVSRL 340

RESULT 4
US-10-156-761-9281
; Sequence 9281, Application US/10156761
```

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; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272657
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 9281
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-9281

Query Match          10.1%; Score 94; DB 4; Length 218;
Best Local Similarity 28.7%; Pred. No. 0.39;
Matches 47; Conservative 22; Mismatches 73; Indels 22; Gaps 8;

Qy 21 ALADRIGDEAEI--AMLSF-TGIDDTMAALAAEQPLFEATDALVTDPYDHLSEYER 77
Db 25 ALADRIGVAAHAEVDVGLSVASGVPEPVKALLSGRPAEPDLOA---RLQRLDILRR 81
Qy 78 TODLFANSTKVEQ-----LKETQAEYLLGLRGGEYDTEYAQAQRARIGKHID--VLGL 128
Db 82 TR-LKPNRRYTTQDEIADGAGMSRQAGALIN-GRRRTMHCDAIQCFPVHAGFLRAE 139
Qy 129 GPDVYLGAITYRYTGLDALADVDVADRGEEAAAAYDELVARFL 172
Db 140 DEALAGTLQSEGLLOQL-----ADREAAAMAAVDDPLRL 178

RESULT 5
US-10-156-761-13480
; Sequence 13480, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272657
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 13480
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-13480

Query Match          9.6%; Score 89.5; DB 4; Length 400;
Best Local Similarity 26.7%; Pred. No. 2.5;
Matches 36; Conservative 16; Mismatches 66; Indels 17; Gaps 5;

Qy 42 IDDTMAALAAEQPLFEATDALVTDPYDHLSEY--ERTQDLFANSTKVEQLKETQAEY 99
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STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/428,414A  
FILING DATE: 21-Apr-1995  
CLASSIFICATION: 436  
ATTORNEY/AGENT INFORMATION:  
NAME: Kadlecck, Ann T.  
REGISTRATION NUMBER: 39,244  
REFERENCE/DOCKET NUMBER: 210121.407  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4800  
TELEFAX: (206) 682-6031  
TELEX: 3723836 SEEDANDBERRY  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 955 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-428-414A-3

Query Match 9.8%; Score 91.5; DB 1; Length 955;  
Best Local Similarity 27.3%; Pred. No. 0.24; Gaps 8;  
Matches 54; Conservative 22; Mismatches 77; Indels 45; Gaps 8;

QY 13 VRNGIDSHALADRIIGLDEAIAWRLSFTGIDDDTMALAAQPLFEATADALVT---DFY 69  
DB 530 VRRRLDAEIASEREKL-----ESTVAQLEREQREERVALDALQTHQRKQ 574  
QY 70 DHEISYRTODLPANSTKTYBQKETOAEYLLGSGREYVTE-YAQRARIGKIHVGL 128  
DB 575 EAESSSRTA---AERDQLQQLTELOS-RTQLSQVTVRERLTRLQRIQYEGTEL 630  
QY 129 GPDVYLGA---YTRYTGLL-----DALADVVADRGEEAAAADVELV--- 168  
DB 631 ARVVALCAQEMERHYAAVPHLOTLLLEATEMEDALREARLAAERDAAAAEIDAAASTS 650  
QY 169 --ARFLPMLKLTFFDQOI 184  
DB 691 QNARBSACERLTSLEQOL 708

RESULT 3  
US-08-006-676B-1  
Sequence 1, Application US/08006676B  
Patent No. 5411865  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven  
TITLE OF INVENTION: Diagnosis of Leishmaniasis  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Jeffrey B. Oster  
STREET: 8339 SE 57th Street  
CITY: Mercer Island  
STATE: Washington  
COUNTRY: USA  
ZIP: 98040-4906  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORD for Windows  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/006,676B

FILING DATE: 15-JAN-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Oster, Jeffrey B.  
REGISTRATION NUMBER: 32,585  
REFERENCE/DOCKET NUMBER: REED-4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 232 7845  
TELEFAX: (206) 236 0205  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 955 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-006-676B-1

Query Match 9.5%; Score 89; DB 1; Length 955;  
Best Local Similarity 29.3%; Pred. No. 0.46;  
Matches 49; Conservative 19; Mismatches 69; Indels 30; Gaps 7;

QY 44 DDTMALAAQPLFEATADALVT---DFYDHEISYRTODLPANSTKTYBQKETOAEYL 100  
DB 546 ESTVAQLEREQREERVALDALQTHQRKQEAESSSRTA---AERDQLQQLTELOS-R 601  
QY 101 LGSGREYVTE-YAQRARIGKIHVGLGPDVYLGA---YTRYTGLL----- 145  
DB 602 TQLSQVTVRERLTRLQRIQYEGTEIARVVALCAQEMERHYAAVPHLOTLLLEAT 661  
QY 146 ---DALADVVADRGEEAAAADVELV---ARFLPMLKLTFFDQOI 184  
DB 662 EWEEDALREARLAAERDAAAAEIDAAASTSQNARBSACERLTSLEQOL 708

RESULT 4  
US-08-282-845-2  
Sequence 2, Application US/08282845  
Patent No. 5719263  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
TITLE OF INVENTION: A 230kd Antigen Present in Leishmania  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunex Corporation  
STREET: 51 University Street  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Apple Macintosh  
OPERATING SYSTEM: Apple Macintosh Operating System 7.1  
SOFTWARE: Microsoft Word for Macintosh 5.1a  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/282,845  
FILING DATE: 08/06/676  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/006,676  
FILING DATE: JANUARY 15, 1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Patricia Anne  
REGISTRATION NUMBER: 34,693  
REFERENCE/DOCKET NUMBER: 5004-A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)587-0430  
TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 955 amino acids